

powered by

Q.ANTUM

Q.PEAK L-G5.2

365-380

ENDURING HIGH PERFORMANCE



LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty¹.

¹ See data sheet on rear for further information.



THE IDEAL SOLUTION FOR:



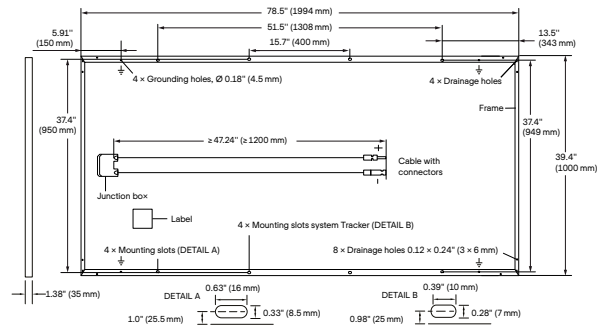
Ground-mounted solar power plants

Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	78.5 in × 39.4 in × 1.38 in (including frame) (1994 mm × 1000 mm × 35 mm)
Weight	52.9 lbs (24 kg) ± 5 %
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 × 12 monocrystalline Q.ANTUM solar cells
Junction Box	3.35-4.53 in × 2.36-3.15 in × 0.59-0.75 in (85-115 mm × 60-80 mm × 15-20 mm), ≥ IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 47.2 in (1200 mm), (-) ≥ 47.2 in (1200 mm)
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Tongling TL-Cable01S-F, Amphenol UTX; IP68

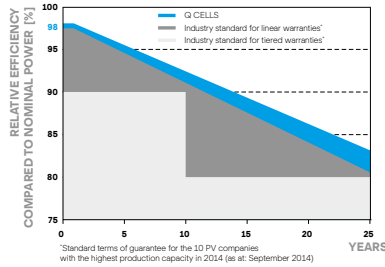


ELECTRICAL CHARACTERISTICS

POWER CLASS			365	370	375	380
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)						
Minimum	Power at MPP ¹	P _{MPP} [W]	365	370	375	380
	Short Circuit Current ¹	I _{SC} [A]	9.80	9.86	9.92	9.98
	Open Circuit Voltage ¹	V _{OC} [V]	48.02	48.30	48.59	48.88
	Current at MPP	I _{MPP} [A]	9.31	9.39	9.47	9.54
	Voltage at MPP	V _{MPP} [V]	39.20	39.41	39.62	39.83
	Efficiency ¹	η [%]	≥ 18.3	≥ 18.6	≥ 18.8	≥ 19.1
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²						
Minimum	Power at MPP	P _{MPP} [W]	272.4	276.1	279.8	283.6
	Short Circuit Current	I _{SC} [A]	7.90	7.95	7.99	8.04
	Open Circuit Voltage	V _{OC} [V]	45.19	45.46	45.73	46.00
	Current at MPP	I _{MPP} [A]	7.32	7.39	7.45	7.52
	Voltage at MPP	V _{MPP} [V]	37.18	37.36	37.54	37.71

¹Measurement tolerances P_{MPP} ± 3%; I_{SC}; V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5

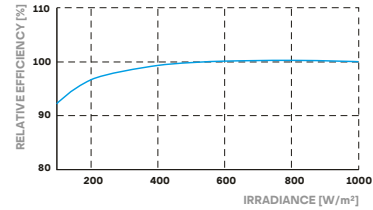
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.6% degradation per year. At least 92.6% of nominal power up to 10 years. At least 83.6% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α [%/K]	+0.04	Temperature Coefficient of V _{OC}	β [%/K]	-0.28
Temperature Coefficient of P _{MPP}	γ [%/K]	-0.39	Normal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V _{sys}	[V]	1500 (IEC)/1500 (UL)	Safety Class	II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 1703	C / TYPE 1
Max. Design Load, Push / Pull ³	[lbs / ft ²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push / Pull ³	[lbs / ft ²]	113 (5400 Pa) / 50 (2400 Pa)		

³ See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 1703, CE-compliant,
IEC 61215:2016, IEC 61730:2016, Application Class II



PACKAGING INFORMATION

Number of Modules per Pallet	30
Number of Pallets per 40' HC-Container	22
Pallet Dimensions (L × W × H)	80.8 × 44.5 × 46.1 in (2010 × 1130 × 1170 mm)
Pallet Weight	1709 lbs (775 kg)

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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